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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A separator for separating multiphase flow, the separator comprising:
 - an inlet for a multiphase fluid;
 - a plurality of outlets, at least one for each selected separated phase; and
 - a main annular tubular bore through which the multiphase flow is caused to flow and to separate into lighter and heavier fluids, the main annular tubular bore having an outlet for each of the -lighter and heavier fluids.
2. (Currently amended) A separator according to claim 1, wherein the inlet is a tangential entry, thereby causing the fluid to circulate through the main annular tubular bore.
3. (Currently amended) A separator according to either claim 1 or claim 2, wherein the flow area of the main annular tubular bore diameter is at least twice the flow area of the inlet bore to allow a stable rotating flow to establish.
4. (Currently amended) A separator according to ~~any one of~~ claims 1 to 3, wherein the heavier fluid outlet is tangential to the main bore, in the -direction of the flow and from a lower, outer section of the main annular tubular bore.
5. (Currently amended) A separator according to ~~claim 1~~~~any one of the preceding claims~~, wherein the lighter fluid outlet is tangential to the main annular tubular bore, in the direction of the flow and from an upper, inner section of the main annular tubular bore.
6. (Currently amended) A separator according to ~~claim 1~~~~any one of the preceding claims~~, further comprising a first additional tubular bore located below, and in fluid communication with, the heavier fluid outlet, the first additional bore causing further separation of the flow into lighter and heavier fluids and having an outlet for each of the lighter and heavier fluids.
7. (Currently amended) A separator according to ~~claim 1~~~~any one of the preceding claims~~, further comprising a second additional tubular bore located above, and tangentially in fluid communication with, the lighter fluid outlet, the second additional bore causing further separation of the flow into lighter and heavier fluids and having an outlet for each of the lighter and heavier fluids.

8. (Currently amended) A separator according to either claim 6 or claim 7, wherein the inlet into the first additional bore is tangential.

9. (Currently amended) A separator according to claim 1 ~~any one of the preceding claims~~, further comprising a spiral conduit connected to at least one of the outlets, the conduits(s) having a smaller flow diameter than any of the annular tubular bores, thereby increasing the fluid velocity to enable further separation of the fluids into the desired phases.

10. (Currently amended) A separator according to claim 9, wherein the spiral conduit is a parallel sided spiral coil having the same coil diameter as the spiral coil above to allow the flow to stabilise.

11. (Currently amended) A separator according to claim 9 ~~or claim 10~~, wherein each conduit defines an envelope, at least part of the envelope being tapered such that the diameters of consecutive loops of the conduit are reduced.

12. (Currently amended) A separator according to ~~any one of claims 9 to 11~~, wherein the bore diameter of the conduit is reduced in the direction of flow therethrough.

13. (Currently amended) A separator according to ~~any one of claim 9 to 12~~, wherein the angle of slope of the pipework in the coil of the spiral relative to the annular bore(s) increases as the fluid flows through the conduit to control the flow relative to the previous section.

14. (Currently amended) A separator according to ~~any one of claims 9 to 13~~, further comprising of one or more outlets from the spiral to allow for the further separation of lighter and heavier fluids.

15. (Currently amended) A separator according to ~~any one of claims 9 to 14~~, further comprising one or more drain and/or vent conduits from each conduit into a tubular bore.

16. (Currently amended) A separator according to claim 15, wherein the drain and/or vent conduits exit the conduit(s) tangentially and in the direction of flow to collect the required phase.

17. (Currently amended) A separator according to claim 1 ~~any one of the preceding claims~~, further comprising an outlet for solid slurry.

18. (Currently amended) A separator according to claim 1~~any one of the preceding claims~~, wherein the annular tubular bore(s) is(are) circular.

19. (New) A separator according to claim 7, wherein the inlet into the second additional bore is tangential.